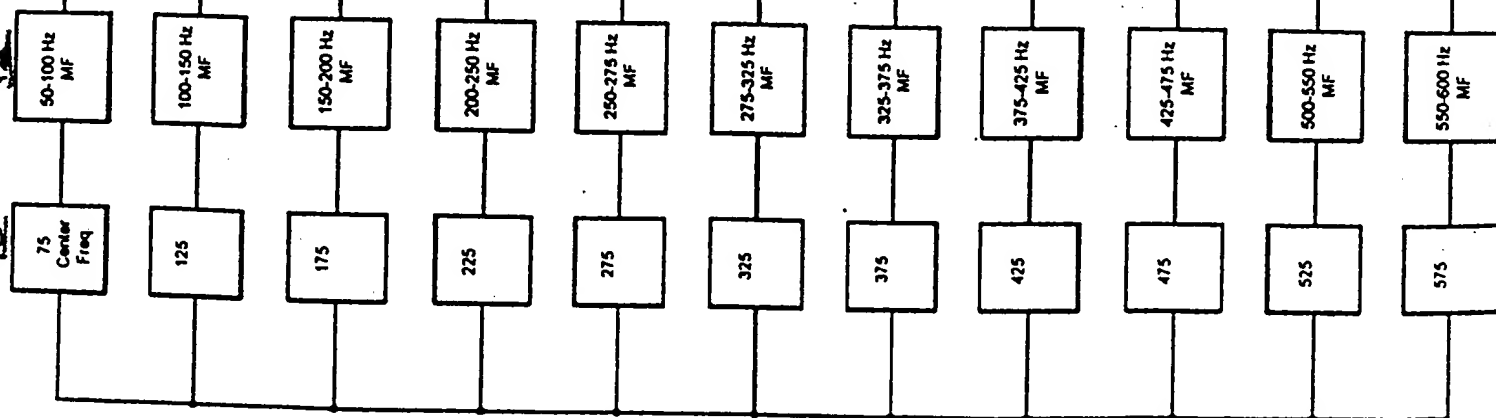




50 Hz BAND PASS FILTERS

MATCHED FILTERS (50 Hz BW)



SINGLE
BEAM
INPUT.

SELECTS
3 STRONGEST
NON-ZERO
TARGET
VELOCITY
OUTPUTS

OPTIMUM
DETECTOR
FOR EACH BEAM

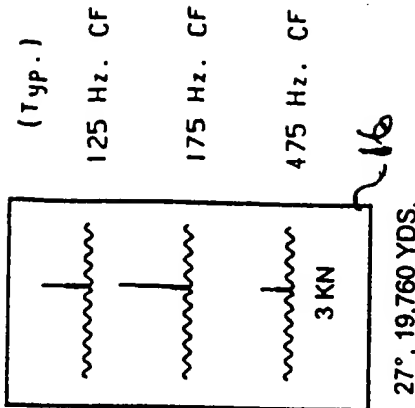


Figure 1

MULTIBAND MATCHED-FILTER PROCESSOR
50 Hz - 600 Hz
IN 50 Hz BANDS

FOR EACH BEAM, PROVIDES SEARCHOVER
50-600 Hz TO SEEK THE 50 Hz BAND(S)
YIELDING SIMULTANEOUSLY THE BEST
JOINT COMBINATION OF TARGET AND
PROPAGATION RESPONSE